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SEQUENCE LISTING

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LI, SHENGMIN
PIETRZYNSKI, GRZEGORZ
ALAKHOV, VALERY

<120> LIGAND FOR VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPTOR

<130> 082181-36154 CON

<140> 10/784,589

<141> 2004-02-23

<150> 09/775,743

<151> 2001-02-02

<160> 43

<170> PatentIn Ver. 3.3

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<212> PRT

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<220>

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peptide

<220>

<221> MOD_RES

<222> (16)

<223> AMIDATION

<400> 1

Asn	Gly	Tyr	Glu	Ile	Glu	Trp	Tyr	Ser	Trp	Val	Thr	His	Gly	Met	Tyr
1					5				10					15	

<210> 2

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

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peptide

<220>

<221> MOD_RES

<222> (17)

<223> AMIDATION

<400> 2

Cys	Asn	Gly	Tyr	Glu	Ile	Glu	Trp	Tyr	Ser	Trp	Val	Thr	His	Gly	Met
1					5				10					15	

Tyr

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<220>
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 <223> ACETYLATION

<220>
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<400> 3
 Cys Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met
 1 5 10 15

Tyr

<210> 4
 <211> 16
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<220>
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<220>
 <221> MOD_RES
 <222> (1)
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<220>
 <221> MOD_RES
 <222> (16)
 <223> AMIDATION

<400> 4
 Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 5
 <211> 19
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<220>
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<220>
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 <223> Fam-Glu

<220>
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<400> 5
 Glu Glu Glu Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His
 1 5 10 15

Gly Met Tyr

<210> 6
 <211> 15
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<220>
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<220>
 <221> MOD_RES
 <222> (1)
 <223> Fam-Asn

<220>
 <221> MOD_RES
 <222> (15)
 <223> AMIDATION

<400> 6
 Asn Gly Tyr Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 7
 <211> 16
 <212> PRT
 <213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (2)..(3)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (7)..(9)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (11)..(15)
<223> Variable amino acid

<400> 7
Asn Xaa Xaa Glu Ile Glu Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Tyr
  1               5               10               15

<210> 8
<211> 16
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<220>
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      peptide

<220>
<221> MOD_RES
<222> (1)
<223> Asn or Gln

<220>
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<222> (2)..(3)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (4)
<223> Negatively charged amino acid comprising of Glu
      or Asp

<220>
<221> MOD_RES
<222> (5)
<223> Ile, Leu, Val, or Met

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<220>
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 <223> Negatively charged amino acid comprising of Glu
 or Asp

<220>
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 <222> (7)..(9)
 <223> Variable amino acid

<220>
 <221> MOD_RES
 <222> (10)
 <223> Aromatic amino acid comprising of Trp, Phe, Tyr,
 or His

<220>
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 <222> (11)..(15)
 <223> Variable amino acid

<220>
 <221> MOD_RES
 <222> (16)
 <223> Aromatic amino acid comprising of Tyr, Trp, Phe,
 or His

<400> 8
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15

<210> 9
 <211> 69
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
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<400> 9
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 gcgcttctg 69

<210> 10
 <211> 69
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 10
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gcgcttctg

69

<210> 11

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 11

gggccgggttt tgtggggggg tggttgggttc cggaggacga gcggctctac ccggaggggtg 60
gcgcttctg 69

<210> 12

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 12

aagcgccacc

10

<210> 13

<211> 11

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 13

accggccccg t

11

<210> 14

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 14

Ala Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
1 5 10 15

<210> 15
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 15
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 1 5 10 15

<210> 16
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
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 peptide

<400> 16
 Asn Gly Tyr Glu Ala Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 17
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 17
 Asn Gly Tyr Glu Ile Ala Trp Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 18
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 18
 Asn Gly Tyr Glu Ile Glu Ala Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 19
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 19
 Asn Gly Tyr Glu Ile Glu Trp Ala Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 20
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 20
 Asn Gly Tyr Glu Ile Glu Trp Tyr Ala Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 21
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 21
 Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Ala Val Thr His Gly Met Tyr
 1 5 10 15

<210> 22
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 22
 Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Ala His Gly Met Tyr
 1 5 10 15

<210> 23
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 23
 Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr Ala Gly Met Tyr
 1 5 10 15

<210> 24
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 24
 Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Ala Tyr
 1 5 10 15

<210> 25
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
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 peptide

<400> 25
 Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Ala
 1 5 10 15

<210> 26
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 26
 Asn Gly Tyr Ala Ile Ala Trp Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 27
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 27
 Asn Gly Tyr Glu Ile Glu Ala Tyr Ser Ala Val Thr His Gly Met Tyr
 1 5 10 15

<210> 28
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 28
 Glu Ile Glu Trp Tyr Ser Trp
 1 5

<210> 29
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 29
 Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10

<210> 30
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 30
 ataacaagct tggcgcggag atgggggtg

<210> 31
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 31
 ataactctag aacggtggca gcagcatgtc ac 32

<210> 32
 <211> 85
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 32
 acaactctag aatgaacggg tacgagatcg agtgggtactc gtgggtcacg cacgggatgt 60
 actctggggc cggatctaga caaca 85

<210> 33
 <211> 13
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 33
 gccgccacca tgg 13

<210> 34
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 34
 Gln Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 35
 <211> 16
 <212> PRT
 <213> Artificial Sequence


```
<210> 39
<211> 7
<212> PRT
<213> Artificial Sequence
```

```
<220>
<223> Description of Artificial Sequence: Synthetic
      peptide
```

```
<400> 39
Tyr Ala Phe Gly Tyr Pro Ser
  1                      5
```

```
<210> 40
<211> 6
<212> PRT
<213> Artificial Sequence
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```
<220>
<223> Description of Artificial Sequence: Synthetic
        6xHis tag
```

```
<400> 40
His His His His His His
  1                      5
```

```
<210> 41
<211> 4
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
      peptide linker
```

```
<400> 41
Ser Gly Ala Gly
      1
```

```
<210> 42
<211> 500
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide
```

<220>
<223> This sequence may consist of 4 to 500 Lys residues

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<400> 42
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 1             5             10            15
```

Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
20						25						30					
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
35						40						45					
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
50						55						60					
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
65						70						75			80		
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
			85						90						95		
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
100						105						110					
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
115						120						125					
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
130						135						140					
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
145						150						155			160		
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
			165						170						175		
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
180						185						190					
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
195						200						205					
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
210						215						220					
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
225						230						235			240		
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
			245						250						255		
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
260						265						270					
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
275						280						285					
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
290						295						300					
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
305						310						315			320		

```
<210> 43
<211> 1000
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide
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```
<220>
<223> This sequence may consist of 2 to 500 Ala-Lys
      repeating residues
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```
<400> 43  
Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys  
   1                               10                          15  
  
Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys  
                20                      25                  30
```

Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
35						40						45			
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
50						55						60			
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
65				70						75				80	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				85				90						95	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
		100						105				110			
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
115						120						125			
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
130						135						140			
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
145				150						155				160	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				165				170						175	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
		180						185				190			
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
195						200						205			
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
210						215						220			
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
225				230						235				240	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				245				250						255	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
		260						265				270			
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
275						280						285			
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
290						295						300			
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
305				310						315				320	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				325				330						335	

Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	340	345	350	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	355	360	365	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	370	375	380	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	385	390	395	400
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	405	410	415	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	420	425	430	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	435	440	445	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	450	455	460	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	465	470	475	480
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	485	490	495	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	500	505	510	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	515	520	525	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	530	535	540	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	545	550	555	560
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	565	570	575	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	580	585	590	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	595	600	605	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	610	615	620	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	625	630	635	640

Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				645				650						655	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				660				665						670	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				675				680						685	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				690				695						700	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				705				710						715	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				725				730						735	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				740				745						750	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				755				760						765	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				770				775						780	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				785				790						795	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				805				810						815	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				820				825						830	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				835				840						845	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				850				855						860	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				865				870						875	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				885				890						895	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				900				905						910	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				915				920						925	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				930				935						940	

Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys
945 950 955 960

Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys
965 970 975

Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys
980 985 990

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995 1000